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Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-02-28-105 **Date: 03/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 28-11-19

: Drain Side Wall Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/12/2019

| | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | M20 | 26/11/2019 | 03/12/2019 | 149.92 X 150.19 X 149.41 | 22516 | **8.616** | 427.3 | 19.0 | 18.5 |
| | M20 | 26/11/2019 | 03/12/2019 | 150.41 X 149.26 X 151.63 | 22449 | **8.045** | 412.4 | 18.4 | |
| | M20 | 26/11/2019 | 03/12/2019 | 150.63 X 150.22 X 150.53 | 22628 | **8.556** | 411.4 | 18.2 | |

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CIVIL PRO BANGALORE Sig..... Date.....

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 24/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 28-11-19

: Drain Side Wall Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

| | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | M20 | 26/11/2019 | 24/12/2019 | 149.16 X 151.11 X 150.09 | 22539 | **8.947** | 526.0 | 23.3 | |
| | M20 | 26/11/2019 | 24/12/2019 | 149.66 X 151.02 X 150.71 | 22601 | **8.689** | 500.3 | 22.1 | 23.1 |
| | M20 | 26/11/2019 | 24/12/2019 | 150.08 X 149.60 X 149.09 | 22453 | **8.703** | 533.7 | 23.8 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105**

**Date: 03/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 28-11-19

: Drain Side Wall Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/12/2019

| | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | M20 | 26/11/2019 | 03/12/2019 | 151.64 X 149.93 X 149.19 | 22736 | **8.616** | 430.9 | 19.0 | 18.6 |
| | M20 | 26/11/2019 | 03/12/2019 | 151.15 X 149.47 X 149.84 | 22592 | **8.045** | 418.1 | 18.5 | |
| | M20 | 26/11/2019 | 03/12/2019 | 149.62 X 151.23 X 150.81 | 22628 | **8.556** | 415.9 | 18.4 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 24/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 28-11-19

: Drain Side Wall Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

| | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | M20 | 26/11/2019 | 24/12/2019 | 149.66 X 149.93 X 152.00 | 22437 | **8.947** | 517.6 | 23.1 | 22.9 |
| | M20 | 26/11/2019 | 24/12/2019 | 149.32 X 149.96 X 150.31 | 22392 | **8.689** | 492.9 | 22.0 | |
| | M20 | 26/11/2019 | 24/12/2019 | 149.30 X 149.33 X 151.89 | 22295 | **8.703** | 525.7 | 23.6 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 03/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 28-11-19

: Drain Side Wall Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 03/12/2019

| | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength (N/mm$^2$) | Average Compressive Strength (N/mm$^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | M20 | 26/11/2019 | 03/12/2019 | 151.07 X 150.27 X 150.86 | 22701 | **8.616** | 410.6 | 18.1 | 18.5 |
| | M20 | 26/11/2019 | 03/12/2019 | 150.50 X 149.97 X 150.48 | 22571 | **8.045** | 420.6 | 18.6 | |
| | M20 | 26/11/2019 | 03/12/2019 | 151.73 X 151.26 X 151.60 | 22951 | **8.556** | 428.1 | 18.7 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105**

**Date: 24/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 28-11-19

: Drain Side Wall Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Wall Concrete | M20 | 26/11/2019 | 24/12/2019 | 149.41 X 150.39 X 149.93 | 22470 | **8.947** | 528.2 | 23.5 | 23.4 |
| Drain Side Wall Concrete | M20 | 26/11/2019 | 24/12/2019 | 151.25 X 149.18 X 150.00 | 22564 | **8.689** | 515.8 | 22.9 | |
| Drain Side Wall Concrete | M20 | 26/11/2019 | 24/12/2019 | 151.51 X 149.54 X 149.63 | 22657 | **8.703** | 542.9 | 24.0 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 07/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 02-12-19

: Culvert Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/12/2019

| Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|
| M20 | 30/11/2019 | 07/12/2019 | 150.79 X 149.85 X 150.04 | 22596 | **8.616** | 421.4 | 18.6 | 18.8 |
| M20 | 30/11/2019 | 07/12/2019 | 150.25 X 151.37 X 150.37 | 22744 | **8.045** | 429.5 | 18.9 | |
| M20 | 30/11/2019 | 07/12/2019 | 149.22 X 151.71 X 149.48 | 22638 | **8.556** | 427.3 | 18.9 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105**

**Date: 07/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 02-12-19

: Culvert Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/12/2019

| | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | M20 | 30/11/2019 | 07/12/2019 | 150.79 X 149.85 X 150.04 | 22596 | **8.616** | 421.4 | 18.6 | 18.8 |
| | M20 | 30/11/2019 | 07/12/2019 | 150.25 X 151.37 X 150.37 | 22744 | **8.045** | 429.5 | 18.9 | |
| | M20 | 30/11/2019 | 07/12/2019 | 149.22 X 151.71 X 149.48 | 22638 | **8.556** | 427.3 | 18.9 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 28/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 02-12-19

: Culvert Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/12/2019

| Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|
| M20 | 30/11/2019 | 28/12/2019 | 150.08 X 150.83 X 151.00 | 22636 | **8.947** | 542.1 | 23.9 | 23.5 |
| M20 | 30/11/2019 | 28/12/2019 | 151.75 X 150.38 X 151.19 | 22820 | **8.689** | 515.7 | 22.6 | |
| M20 | 30/11/2019 | 28/12/2019 | 151.11 X 149.84 X 151.75 | 22642 | **8.703** | 541.9 | 23.9 | |

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: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 02-12-19

: Culvert Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/12/2019

| Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|
| M20 | 30/11/2019 | 07/12/2019 | 149.12 X 149.61 X 151.71 | 22309 | **8.616** | 407.5 | 18.3 | 18.5 |
| M20 | 30/11/2019 | 07/12/2019 | 149.23 X 151.92 X 149.08 | 22671 | **8.045** | 420.6 | 18.6 | |
| M20 | 30/11/2019 | 07/12/2019 | 149.01 X 150.68 X 149.63 | 22454 | **8.556** | 420.4 | 18.7 | |

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: **CP-2020-02-28-105** **Date: 28/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 02-12-19

: Culvert Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/12/2019

| | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| | M20 | 30/11/2019 | 28/12/2019 | 150.79 X 151.26 X 149.44 | 22808 | **8.947** | 542.5 | 23.8 | |
| | M20 | 30/11/2019 | 28/12/2019 | 150.63 X 149.51 X 151.60 | 22522 | **8.689** | 507.6 | 22.5 | 23.4 |
| | M20 | 30/11/2019 | 28/12/2019 | 150.43 X 149.76 X 149.44 | 22527 | **8.703** | 539.4 | 23.9 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 28/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

: EE(Project)/YnkZone/WO/68/2019-20

: 02-12-19

: Culvert Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Culvert Concrete | M20 | 30/11/2019 | 28/12/2019 | 150.79 X 151.26 X 149.44 | 22808 | **8.947** | 542.5 | 23.8 | 23.4 |
| Culvert Concrete | M20 | 30/11/2019 | 28/12/2019 | 150.63 X 149.51 X 151.60 | 22522 | **8.689** | 507.6 | 22.5 | |
| Culvert Concrete | M20 | 30/11/2019 | 28/12/2019 | 150.43 X 149.76 X 149.44 | 22527 | **8.703** | 539.4 | 23.9 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 07/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

**Reference** : EE(Project)/YnkZone/WO/68/2019-20

: 02-12-19

: Culvert Concrete

**Size** : 150X150X150 mm

**Age** : M20 / 7 Days Compressive Strength

**IS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Culvert Concrete | M20 | 30/11/2019 | 07/12/2019 | 149.77 X 151.37 X 151.58 | 22671 | **8.616** | 413.2 | 18.2 | 18.2 |
| Culvert Concrete | M20 | 30/11/2019 | 07/12/2019 | 149.12 X 151.61 X 149.30 | 22609 | **8.045** | 408.4 | 18.1 | |
| Culvert Concrete | M20 | 30/11/2019 | 07/12/2019 | 150.34 X 150.46 X 150.35 | 22621 | **8.556** | 413.1 | 18.3 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 28/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

**Reference** : EE(Project)/YnkZone/WO/68/2019-20

: 02-12-19

: Culvert Concrete

**Size** : 150X150X150 mm

**Age** : M20 / 28 Days Compressive Strength

**BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Culvert Concrete | M20 | 30/11/2019 | 28/12/2019 | 150.01 X 149.48 X 151.43 | 22424 | **8.947** | 527.8 | 23.5 | 23.2 |
| Culvert Concrete | M20 | 30/11/2019 | 28/12/2019 | 149.24 X 150.13 X 151.47 | 22407 | **8.689** | 511.9 | 22.8 | |
| Culvert Concrete | M20 | 30/11/2019 | 28/12/2019 | 150.82 X 150.86 X 150.40 | 22752 | **8.703** | 529.5 | 23.3 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 12/12/2019**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

**Reference** : EE(Project)/YnkZone/WO/68/2019-20

: 07-12-19

: Drain Side Filling Concrete

**Size** : 150X150X150 mm

: M20 / 7 Days Compressive Strength

**BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 12/12/2019

| Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|
| Drain Side Filling Concrete | M20 | 05/12/2019 | 12/12/2019 | 150.74 X 150.61 X 151.17 | 22703 | **8.616** | 419.0 | 18.5 | 18.4 |
| Drain Side Filling Concrete | M20 | 05/12/2019 | 12/12/2019 | 151.31 X 149.16 X 150.19 | 22570 | **8.045** | 417.0 | 18.5 | |
| Drain Side Filling Concrete | M20 | 05/12/2019 | 12/12/2019 | 149.23 X 149.29 X 151.69 | 22279 | **8.556** | 405.5 | 18.2 | |

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